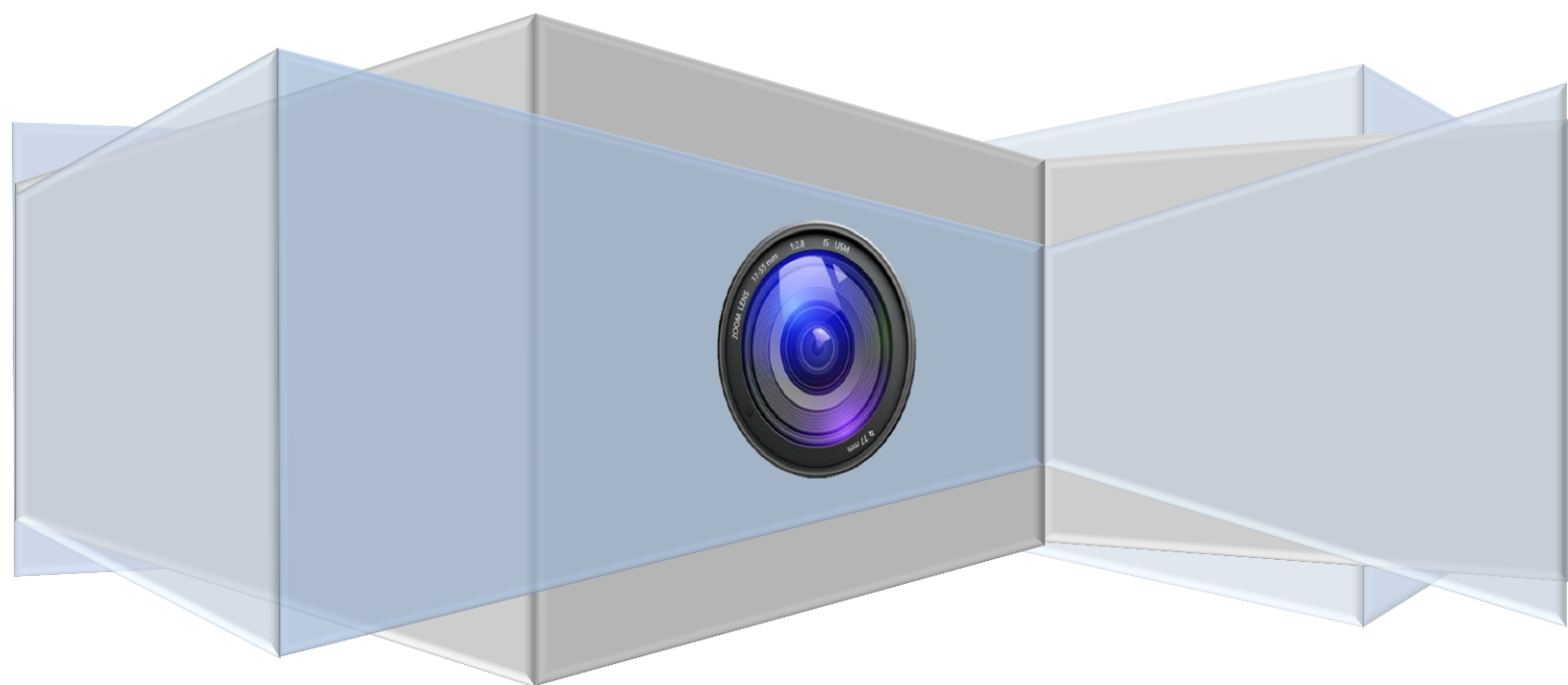**IUT - Vannes**
Computer Sciences department
2013 - 2014

Dominig ar Foll

FlouCapt

Project specifications

Proposed by Lehuby Thibault, Nicol Alexis, Bannier Kévin, Thomas Mathieu.

Contents

I.   Introduction

As part of our studies, we have to carry out a project in real conditions with a professional. We choose FlouCapt because nowadays privacy represents an important issue, particularly on internet. At the top of that we are interested in the Open source concept & we hope that our software will be used and improved in the future. We are in competition with 2 other groups which can see our source code and we have to progress in this environment.

II.   Introduction of the customer

Dominig is a senior system architect, highly respected worldwide in Telecom / IT industries for his technical, business and people leadership. A successful track record in breakthrough technologies (9 patents filled in the last 5 years) and penetration of high-tech markets (VoIP, IPTV, Metro Ethernet, Broadband, Satellite digital TV).

Multilingual (French, English, German, Spanish), works comfortably in distributed multi-national teams dealing with various cultures, enabling direct access to technical and marketing expertise in Telecom and IT over the world. A computer science graduate from the ESAT (Arcueil-Paris).

III.   FlouCapt features

Our team has to develop a web application which provides a picture of a port from a camera. A blur is applied on face and license plate to protect privacy. Pictures are take every 20 seconds.
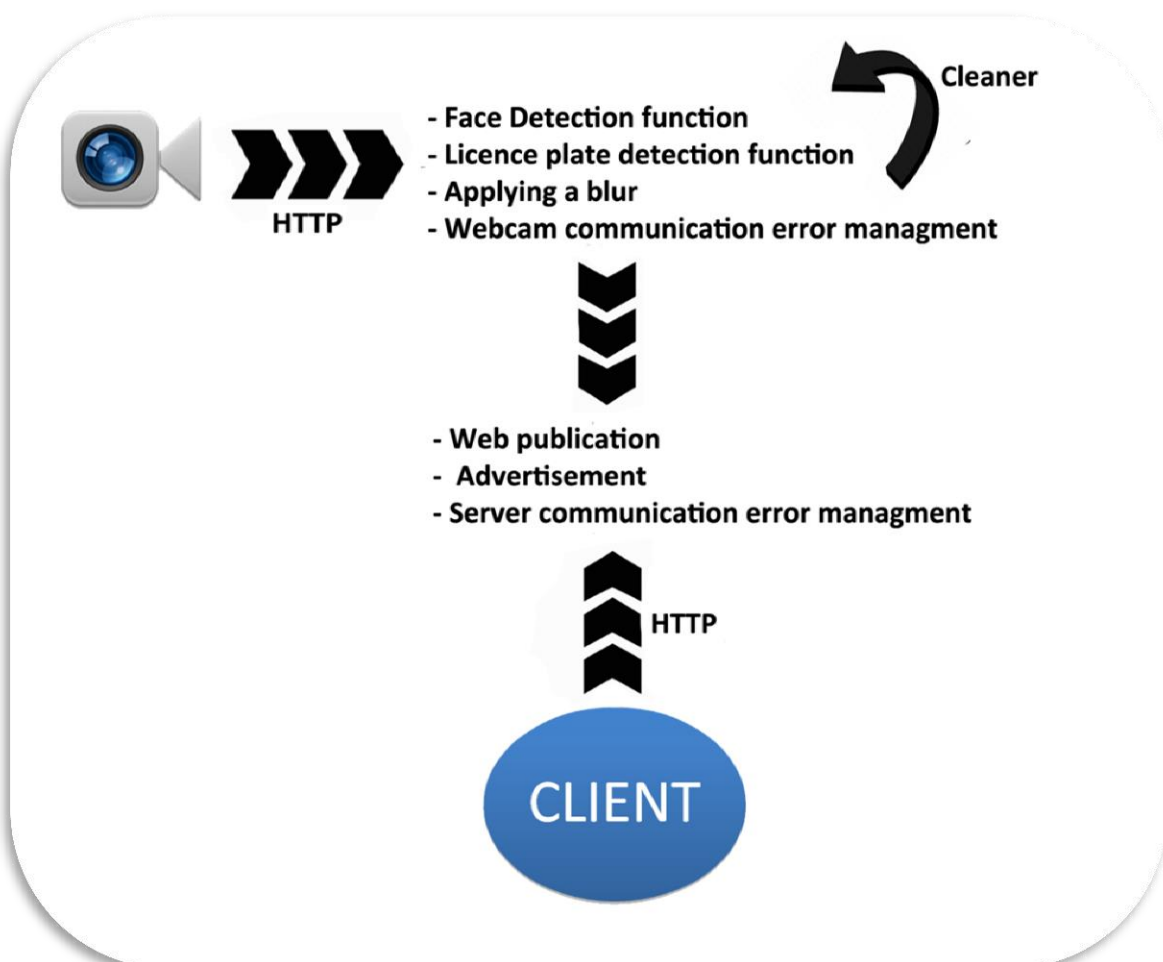
Advertisements will appear at regular intervals. When the user will click on it, he will be redirected on sponsors' website.

The final objective is to obtain a virtual window to the port on different screens. It has to work on different screen size. Floucapt has to be compatible with Windows, Linux and Mac and available on mobile phone with different browser like Firefox, Chrome, Chromium, Safari & Internet explorer.

IV.   Laws

As this project is Open Source, it can be used in different countries. If the blur is not applicated, due to a bug or a non-detection of a face or a license plate, our project becomes a videosurveillance. In this case, the server owner has to be able to set the retention period of the pictures and has to accommodate it with the existing laws.
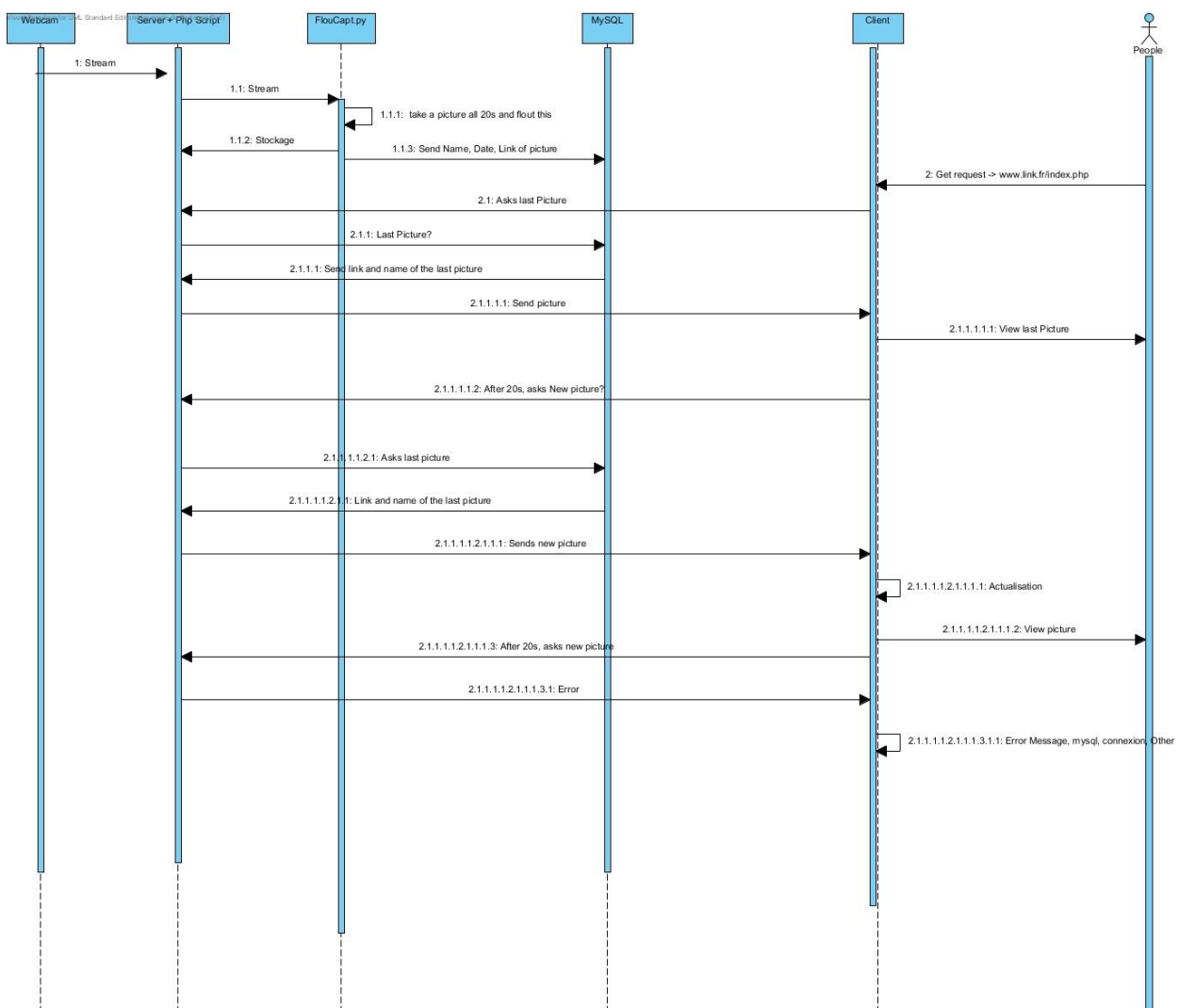
V.   explanatory diagram

VI.   Technologies used

We will use the following technologies to developed the software :

- OpenSuse is a general purpose operating system built on top of the Linux kernel, developed by the community-supported openSUSE
- Apache is a templating framework built to simplify the development of web application user interfaces.
- OpenCV is a library of programming functions mainly aimed at real-time computer vision, developed by Intel, and now supported by Willow Garage and Itseez
- MySQL : open-source relational database management system
- PHP
- HTML5 / CSS3
- JQuery
- Framework : Django
- Redmine
- Github
- Mailing list

VII.   Sequence diagram

Better screen at: http://img4.hostingpics.net/pics/929007FlouCapt.jpg

VIII. Team presentation

Project Manager

    Firstname : Nicol

    Surname : Alexis

    30/06/1993 (20 years old)

Education

    2013/2014 : 2nd year of DUT in IT, Vannes (56)

    2012/2013 : 1st year of DUT in IT, Vannes (56)

    2012 : Baccalauréat STG, Quimperlé (29)

Experiences

    Knowledge of pen' test of web applications

Communication Officer

    Firstname : Lehuby

    Surname : Thibault

    31/01/1992 (21 years old)

Education

    2013/2014 : 2nd year of DUT in IT, Vannes (56)

    2012/2013 : 1st year of DUT in IT, Vannes (56)

    2011/2012 : Preparatory school of Kinésithérapie, Rennes (35)

    2010/2011 : 1st year in PACES, Caen (14)

    2010 : Baccalauréat S, Coutances (50)

Experiences

    2013 : Qualified to apply to a lifeguard job as "Chief of a turn"

Test Administrator

Firstname : Bannier

Surname : Kévin

26/10/1994 (18 years old)

Education

2013/2014 : 2nd year of DUT in IT, Vannes (56)

2012/2013 : 1st year of DUT in IT, Vannes (56)

2012 : Baccalauréat STI, Pontivy (29)

Experiences

2013 : Contribution to an Open source project with Github

2011 : Development of an application "Doodle Jump" using the graphing calculator support

Documentation Manager

Firstname : Thomas

Surname : Mathieu

04/08/1993 (20 years old)

Education

2013/2014 : 2nd year of DUT in IT, Vannes (56)

2012/2013 : 1st year of DUT in IT, Vannes (56)

2012 : Baccalauréat STG, Quimper (29)

Experiences

2013 : Participation to the HTML5/CSS3 courses with OpenClassRooms using the MOOC system.

Last year, in 1st year of DUT in IT, we organized the flagship conference together, with the intervention of Mr Balin, of the "Printemps de l'Entreprise"; this conference had for theme "The ecologic impacts of the NICTs".

And more, in pairs, Alexis Nicol with Thibault Lehuby and Kévin Bannier with Mathieu Thomas, we have carried out two website, one for each pair, for two associations. We were competing with other pairs and all both groups have been chosen "better website created" by the customer.